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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,822	11/12/2003	David L. Sherman	15826-111001/11-03-001	6936
26231 7	590 08/23/2005		EXAM	INER
FISH & RICHARDSON P.C.		JENKINS, JERMAINE L		
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SUITE 5000			Aut Chil	
DALLAS, TX	75201		2855	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	17	
	10/706,822	SHERMAN ET AL	SHERMAN ET AL.	
Office Action Summary	Examiner	Art Unit		
	Jermaiņe Jenkins	2855		
The MAILING DATE of this communication ap Period for Reply	pears on the cover she	et with the correspondence ac	idress	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, no ly within the statutory minimum will apply and will expire SIX (6 e. cause the application to become	nay a reply be timely filed of thirty (30) days will be considered time) MONTHS from the mailing date of this of the ABANDONED (35 U.S.C. § 133).	ly. communication.	
Status				
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) Thi 3) Since this application is in condition for allowated closed in accordance with the practice under	s action is non-final. ance except for formal		e merits is	
Disposition of Claims				
4) ⊠ Claim(s) 1-34 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 26 is/are allowed. 6) ⊠ Claim(s) 1-25 and 27-34 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/s	awn from consideration			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on <u>01 December 2003</u> is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	are: a) \boxtimes accepted or e drawing(s) be held in a ction is required if the dra	beyance. See 37 CFR 1.85(a). awing(s) is objected to. See 37 C	FR 1.121(d).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received nts have been received ority documents have au (PCT Rule 17.2(a))	d. I in Application No been received in this Nationa	l Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10082004	Pap	rview Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application (PT er:	⁻ O-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Art Unit: 2855

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-24 & 27-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ekstrom Jr. (4,221,134) in view of Nelson (5, 187,985).

In regards to claims 1, 12, 27 & 32, Ekstrom Jr. teaches a pressure measuring system (5) having a coupling device (12, being interpreted as bolts), a pressure-conveyance media (being interpreted as fluid) responsive to external pressure on the coupling device (12) (Column 3, lines 19-40), a pressure sensor operable to sense a pressure of the pressure-conveyance media, temperature sensor operable to sense a temperature of the pressure-conveyance media (Column 2, lines 5-10 & Column 9, lines 50-6%. Ekstrom Jr. does not teach a processor operable to determine external pressure on the coupling device based on the pressure-conveyance media and the temperature of the pressure-conveyance media. Nelson teaches a pressure transducer having a processor (being interpreted as a compensation circuit) operable to determine external pressure (Column 3, lines 5-22). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a processor as taught by Nelson in the pressure measuring system of Ekstrom Jr. for the purpose of increase

Art Unit: 2855

accuracy and sensitivity at very low magnitudes of pressures (Nelson, Column 3, lines 23-27).

With respect to claims 2, 13, 21, 28 & 33, Ekstrom Jr. teaches the coupling device (12) comprises a seal (10, 11, being interpreted as orifice plates) in which the pressure-conveyance media is at least partially disposed, the seal (10, 11) adapted to couple to a process and to mechanically respond to pressure exerted by a process media (Column 3, lines 53-66; Figure 1 & 4).

With respect to claims 3 & 29, Ekstrom Jr. teaches the seal (10, 11) comprises a diaphragm (13) that is operable to mechanically respond to pressure exerted by a process media and to convey the response to the pressure-conveyance media (Column 5, lines 19-29).

With respect to claim 5, Ekstrom Jr. teaches the pressure sensor comprises a piezo-type sensor (Column 4, lines 15-21).

With respect to claim 6, Nelson teaches the temperature sensor comprises a resistive temperature device (Column 8, lines 20-35).

With respect to claims 7 & 30, Nelson teaches the processor is further operable to generate a signal representing the determined pressure (Column 2, lines 45-62).

With respect to claims 8, 15, 16, 23 & 24, Ekstrom Jr. teaches a visual output device (4) operable to display indicia representing the determined external pressure based on the generated signal (Column 4, lines 35-404 See Figure 1).

With respect to claims 9, 14, 22 & 31, Nelson teaches wherein determining external pressure on the coupling device baled on the pressure of the pressure-conveyance media and the temperature of the pressure-conveyance media (Column 3,

Art Unit: 2855

lines 5-22) comprises compensating the pressure of the pressure-conveyance media based on the temperature of the pressure-conveyance media and determining external pressure on the coupling device based on the compensated pressure of the pressure conveyance media (Column 2, lines 45-52).

In regards to claims 10, 11 & 20, Ekstrom Jr. teaches a coupling device comprising a diaphragm mechanically responsive to external pressure, a pressure-conveyance media disposed at least in part in the coupling device and responsive to the diaphragm (Column 3, lines 19-40), a pressure sensor positioned to sense a pressure of the pressure-conveyance media, a temperature sensor positioned to sense temperature of the pressure-conveyance media (Column 2, lines 5-10 & Column 9, lines 50-60). Ekstrom Jr. does not teach a processor operable to determine external pressure on the diaphragm based on the pressure-conveyance media and the temperature of the pressure-conveyance media.

Nelson teaches a pressure transducer having a processor (being interpreted as a compensation circuit) operable to determine external pressure (Column 3, lines 5-22). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a processor as taught by Nelson in the pressure measuring system of Ekstrom Jr. for the purpose of increase accuracy and sensitivity at very low magnitudes of pressures (Nelson, Column 3, lines 23-27).

With respect to claims 19 & 34, Ekstrom Jr. teaches determining an indicia (3, i.e. vane) representing the determined external pressure, the indicia (3) for display by a visual output device (4, i.e. scale) (Column 3, line 3-18; Figure 1).

Art Unit: 2855

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ekstrom Jr. (4,221,134) in view of Nelson (5,187,985) as applied to claims 1-3 & 5-24 above, and further in view of Murphy et al (5,286,931).

With respect to claim 4, Ekstrom Jr. and Nelson teach the claimed invention except for Murphy et al teaches a pressure-conveyance media comprises glycerin.

Murphy et al teaches a pressure gauge having a media comprises a glycerin (Column 1, lines 42-61). It would have been obvious to one having ordinary skill in the art at the time to provide a glycerin as taught by Murphy et al in the system of Ekstrom Jr. and Nelson for the purpose of dampening the vibration of the movable parts of the housing (Column 1, line 66-Column 2, line 2).

Response to Arguments

4. Applicant's arguments filed 6/6/2005 have been fully considered but they are not persuasive. In response to the applicant's arguments that the cited reference does not disclose the limitations of the claimed invention, the primary reference (Ekstrom Jr. 4,221,134) discloses a pressure measuring device wherein a pressure-conveyance media (fluid that flows through fluid line (1)) responsive to external pressure on the coupling device (12, bolts which consist of the pressure sensing unit (5) that responds to the pressure exerted by the fluid through tube (8) (Column 3, lines 19-40; See Figure 1).

The secondary reference, Nelson (5,187,985) teaches a pressure transducer having a processor (being interpreted as a compensation circuit) operable to determine external pressure (Column 3, lines 5-22). Due to the fact that both references are pressure measuring devices, it would have been obvious at the time the invention was made to a

Art Unit: 2855

person having ordinary skill in the art to combine the cited art. Therefore this rejection is made final.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jermaine Jenkins whose telephone number is 571-272-2179. The examiner can normally be reached on Monday-Thursday 7am-530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 7

Application/Control Number: 10/706,822

Art Unit: 2855

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jermaine Jenkins A.U. 2855

EDWARD LEFKOWITZ
SUPERVISORY PATENT EXAMINER
TECHNICLOGY CENTER 2800